

*Precision*

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# SHOOTING

*a magazine for shooters by shooters*



# PRECISION SHOOTING

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The Precision Shooting back issue file awaits your request. We have recently acquired some additional back issues which will fill a few of the lower piles.

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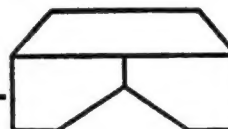
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# President's Message



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Fellow shooters:

It is my proud duty to inform you that the Stonewall Rifle & Pistol Club, Staunton, Va. will hold an IBS registered shoot on April 15th and 16th with Light Varmint and Heavy Varmint classes. This will be the first registered shoot held by this club in many, many years. Johnstown, Dubois and Staunton are all of the same era and I am very happy to see them return.

I can remember when I was a youngster, in my teens, attending matches each spring that were held by this club. April weather conditions in Virginia can be changeable. We could leave our cold weather behind and travel into spring with Forsythia in bloom, apple trees pink with blossoms and the nicest weather you can imagine; or we could hit spring rains. But whatever it might be, do plan on going south to this shoot. This club can use the patronage and you all know we surely can use this club. So, Welcome Staunton! We are proud to have you.

I am sorry to report that we have received the resignation of our Recording Secretary, Donalee Stekl. Donalee has always done a tremendous job and we are very grateful. We wish her well.

Our new Recording Secretary is Mrs. Evelyn Richards. Please forward all correspondence to her at 411 North Wilbur Avenue, Sayre, Pa. 18840.

During the annual meeting, and in recent weeks, I have completed the committee assignments. Please make note of the various committee members and feel free to contact them if you have information or need their services.

Sincerely,  
Wallace E. Hart

## COMMITTEES FOR YEAR OF 1978

### POSTAL COMMITTEE

Rick Hornbeck

### COOLING OFF COMMITTEE — 1 year

Clyde Hart, Chairman  
Paul Kempfer  
Jack Deming

### NOMINATING COMMITTEE

Doc Garcelon, Chairman  
Lloyd Richards  
Paul Olewine

### HUNTER RIFLE COMMITTEE

Guy Green, Chairman  
Paul Olewine  
Randy Fritz  
Gaza Nagy  
Robert Linn

### TARGET MEASURING COMMITTEE

Clyde Hart  
Jim Stekl  
Paul Kempfer

### PUBLIC RELATIONS AND LIAISON —

1 year

Executive Board Members

### POWDER PUFF COMMITTEE — 1 year

Mickey Hart  
Marian Siple  
Judy Deming

### VARMINT RIFLE COMMITTEE

Bob White  
P. J. Hart  
Ned Hosey

### HEAVY BENCH COMMITTEE

Randy Fritz  
John Trella  
Al Angerman

Winter Meeting Agenda Item 10.

Consider and take appropriate action concerning a better type of target paper for precise group measurements.

Committee to be retained for 1978 and report back:

Bob White, Chairman  
John Trella  
Bill Bieber

## Custom Products

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## IBS Memo

### IBS Targets — Charter and Life Members

100 or 200 yard benchrest targets are \$20.99 per 500. 300 yard benchrest targets are \$22.08 per 500. 100 yard hunter targets are \$13.48 per 250. 200 yard hunter targets are \$15.39 per 250.

All target orders, as usual, are figured with a 10% discount for affiliated clubs, plus handling and shipping charges.

Mail order to: Evelyn Richards, 411 N. Wilbur Ave., Sayre, Pa. 18840.

The annual membership fee is \$10.00 — Life membership in IBS has been set at \$125. Apply to the recording secretary for enrollment. IBS Affiliated Club Membership \$10.00.

New rule books now available, with minor changes — plus IBS By-Laws at \$1.00 per copy.

IBS Charter Membership Patches and regular patches are available at \$2.00 each.

When ordering **Charter Membership patches**, please indicate your 1970 Card Number.



## "The Editor's Hour"

New people might be the title of this column as we feature many of them. All are deeply involved with making life easier for all shooters so we will get right into introductions.

At the IBS Winter Meeting we received two new officers.

John Moulthrop was elected Treasurer and has assumed his duties. John is President of the South Creek Rod & Gun Club so his activities are many.

Charles Fountaine was elected Secretary. One of the moving forces behind the Dunham's Bay Fish & Game Club Charles will lend his experiences to IBS for his two year term.

We welcome both men to the rank of officer. May they have success with their ideas and efforts. Look for their addresses on page 3 and feel free to contact any of the officers with ideas and opinions. Your notion may just be the great one we are looking for.

\* \* \*

IBS has a new Recording Secretary. Evelyn Richards has been appointed to handle that position. We wish her well in this venture and are sure that she will serve us well. Feel free to contact her if you have membership problems or need IBS related material. Her address is also on page 3.

\* \* \*

Announcing a new club has been a relatively common thing in the past few years. It is a good chore and I get to do it again this month.

The Stonewall Rifle & Pistol Club of Staunton, Virginia has recently rebuilt their range and is presenting a match for us on April 15 and 16. It promises to be a good one and we can all look for growth as the southern shooters become more active. Look for their match announcement, and map, elsewhere in this issue.

\* \* \*

Although not new, by any stretch of the imagination, Rick Hornbeck returns to the IBS Postal Match Chairman's job. Rick handled this so well some time ago that he was almost drafted to do it again.

Rick is already at work and we will print the 1977 results for you in the April issue. They are interesting.

In looking back over previous issues

for various things it suddenly struck me that this issue will mark my 5th year as Editor. That may, or may not, strike you as important; depending on how you rank things in life.

Somewhat more important than the latest Flu epidemic, but less important than the upcoming shooting season, this little fact came home to me the other day. May I look back on those years for a little?

I took the job in January of 1973 with no little amount of worry. I had a few stories under my belt but had never thought about something as involved as this thing was to be. The late Bob Hart offered, encouraged, enticed and otherwise painted a picture which was too good to pass up. I took the job.

There have been days when I have cursed the man for his offer. They have been few, I am happy to report, but they do come once in a while.

I can remember the fishing trip I had to pass on because I had postponed typing the issue of the moment till the last minute. That hurt but you got the issue.

There was the time when an unidentified reader gave me merry Hell over the phone for an hour about something which I am unable to recall the importance of.

There have been the times when I have had to report a death or some other sad news. I do not enjoy those times.

I can remember the weekend I took pictures of all the winners and found that there was no film in my camera. Fortunately they were still around and I could take them again. And on it goes! Not really bad in retrospect; just horrible at the moment.

Then there are the good parts. They are many and frequent. It is the stuff which keeps me going long after normal souls are in bed. The urgent phone call to cover something of importance or the pleasant letter thanking me for doing that coverage.

In the beginning I felt a certain flow of electricity when taking the picture of a match winner. It was a good feeling and I could share with them that moment of victory. In time my opportunity arrived and I knew how they felt when they

looked into my camera. It is a good feeling.

I get opportunities to do product reports which put grand and necessary items on the market for shooters. That is one fine task. I even had a hand in the design of a few of these items. That was fun.

Too many are the occasions when some new shooter has taken too much of my time seeking information on the game or some item of equipment. I listen and aid in any way I can. When that shooter meets me and thanks me for helping the time suddenly becomes worth more than money can buy. I treasure those times.

I fondly remember my first matches on new ranges. I have managed to win the damned things too often. Later I am unable to do even a fair job on the same range. Mainville, Camillus and Blue Trail come to mind in that category. When will I ever repeat a win on one of these places?

Certainly the announcing of a new range, and the subsequent reporting of their matches, always brings a pleasant memory. We need good places to shoot and we are fortunate enough to continue to receive them. May they grow in number.

Featuring a shooter, a worker, or a new item on the cover of the magazine presents a most rewarding challenge. Far too many people labor for this sport and receive nary a thanks for their efforts. Without these brave souls we would have problems. As long as I can surprise someone on the cover I will continue to do so for they all have earned that surprise. Who will we surprise in 1978? I hope it is you.

I could go on but the feeling is evident. I really enjoy working with all of you. Times change and faces move on but the overall spirit is one of fellowship and unity behind a common cause — a good shooting sport. There is no bad in that sort of activity.

Looking ahead I might be tempted to predict what the next five years will bring. That would be no fun. If I knew how it would turn out I would have nothing to look forward to. This way we can struggle along together.

See you in five years!

## PRODUCTS UP-DATE

Just about every reloading bench has a powder trickler; or perhaps you call it a powder dripper. Regardless of what we call them, they all do the same thing very well. I have had several over the years, from different manufacturers, plus a few homemade. You might think it would be rather difficult to come up with a way of improving upon such a simple accessory for reloading. Dave Corbin has come up with an improvement that has made this an even more flexible powder trickler.

It stands three and one half inches high and is one and one quarter inches in diameter. The powder reservoir is machined steel and the base is aluminum. Overall the finish is first class.

What makes this a little dandy is that the rate of flow can be controlled. The aluminum base has an eccentric. By turning the base the metering tube angles downward to increase the powder flow or upward to decrease it. This is very effective and positive. The setting is held through spring tension within the base. Several powders were tried. With a little fooling around the best rate for the powder flow is quickly established.

For the target pistol shooter who wants every reload right on the money this trickler is one that should be given some attention. The Ohaus Model 315 reloading scale, one of the finest scales I have ever owned, was set for 2.8 grains of Bullseye; a load that works well in the .38 Special. The trickler was set for maximum flow and a check was made to determine how fast this load could be metered without error. After a short practice period fifty loads were metered out holding all error on the scale to zero. Time per load worked out to an average of ten seconds. That was the time to get the powder into the pan.

Current price is six dollars. And you might make note that there is a change in address for Dave. It's now Corbin Manufacturing & Supply, Inc., P.O. Box 758, Phoenix, Oregon 97535.

When we first introduced the Wichita Mini action in these pages, we were evaluating one of the first produced, serial number 004. Shortly thereafter some changes were made by Wichita Engineering and Supply. First the action was made one quarter inch longer at the rear and an additional bedding screw was added at the rear of the action. Second, the shroud was made smaller and was coupled with a more narrow cut in the action body to fit the new shroud.

This helps the appearance and is an aid in aligning the bolt when loading.

Wichita Engineering has some other new products for the benchresters in the development stage. They will be along in the near future. Watch for announcements in these pages of these new products.

If you do very much gun disassembly you become aware that the average selection of screwdrivers in the local hardware store wasn't designed for gun work. Even the required disassembly for normal cleaning in some guns requires a specially designed screwdriver for that type screw. This is most often the case with quality shotguns. Without the right width, thickness and design the finish of the screw or bolt, plus the slot, is promptly destroyed. One example is the removal of the stock on a Browning O/U. The first screw destroyed takes place when an attempt is made to free the rear of the trigger guard from the stock. The slot is very narrow, as are the screws throughout this shotgun and others like it.

Those who know what they are doing can regrind a screwdriver and re-temper it to proper hardness. This takes some equipment and know-how. The best route is to have a screwdriver made for the purpose. Such screwdrivers are made by Bonanza Sports Mfg. Co.

Along with the products made by Bonanza for the reloader and gunsmith a complete line of screwdrivers for gun work is produced. The complete line is made up of sixteen screwdrivers; some for very special screws that are known to be real stinkers to remove and replace. Our Browning O/U problem can be overcome, for example, with three different screwdrivers for the three sizes of screws in this shotgun. There are others that have the same kind of problem and Bonanza screwdrivers are available to overcome the problem.

A set of eight popular size screwdrivers are offered for general gun work. Specials that are required can be obtained to fill in for those odd screw slots. These screwdrivers are ground to really fit the slot properly, as in the case of guard screws in most rifles.

For a catalog of these and other first rate products in the Bonanza line, write Bonanza Sports, Mfg. Co., 412 Western Ave., Faribault, Minnesota 55021.

Our editor gave you a product report on the Seely Masker Bedding Pillars in the January 78 issue. Seely sent me a sample of this item some time ago. They

are exactly what editor Moorhead described. I have used these pillars in one stock and they are, in my view, a far superior method of building up support around bedding screws. They can be used in wood or fiberglass stocks.

When snugging up action screws without support of this kind, a movement develops as the action screws and action begin to tighten up. This has resulted in a great many competitors using a torque wrench so that they know exactly how much force is being applied. Often too much pressure ends with stripped threads in the action or on the bolt.

I think this is a nifty idea and I wouldn't be without them in all future stocks. The selection of sizes makes them adaptable to any rifle, including the heavy benchrest rifle. They are longer than necessary and since they are made of aluminum, working them down to proper length is rather easy. I did my shortening after I had them installed in the stock and the bedding completed so that they made good contact with the trigger guard.

For the last several weeks I have been using a pair of Bushnell Custom Compact Binoculars. If you are thinking about binoculars in 6X or 7X take a look at these. They look like a well made toy, only three inches high and eleven oz. The 6X25's sport a 420' field at 100 yards and a more than ample 4.2mm exit pupil. The 7X26's have a field of 368' and an exit pupil of 3.7mm which remains ample for most everyone in any light down to moonlight.

These are just about the most perfect optics you could ask for. They will fit in a good size shirt pocket without bulkiness or excessive weight. This is a top quality glass. They cost something more than the average binocular but if compactness is desirable take a look at these at your local Bushnell dealer.

---

Conetrol is pleased to announce the appointment of Keith Herron Pty. Ltd. of Punchbowl N.S.W. as sole distributor for Conetrol mounts in Australia.

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We look forward to a long and mutually satisfying association with this outstanding Australian firm and direct our friends there to partake of its comprehensive inventory of all grades of Conetrol rings and bases.

# Minutes of Ninth Annual Winter Meeting

The 9th annual Winter Meeting of I.B.S. was called to order by President Wally Hart on January 14, 1978, at the Treadway Inn in Wilkes Barre, Pennsylvania, at 9:15 a.m. He noted that the necessary quorum was present, and that a majority of the club directors were also present, making the ensuing meeting legal. Executive Board members present were Wally, Jim, Bob, Walt (arrived later), (Walt also had Fred's proxy.), and Jack. Club directors present were: Al Kornutiak (Camillus), Clyde (Council Cup), Bob (E.B.S.A.), Bob Linn (I.W.L.A., York), Randy F. (Mainville), John Trella serving as Austin Hogan's proxy (Johnstown), John Moulthrop (South Creek), Clint (Stittsville and B.R.S.C.), and Charlie Pardoe (Sulphyr Springs). Also representing clubs not holding registered matches, but having more than ten members, were: Phyllis J. Austin (Fairfax), and Charlie Fountaine (Dunham's Bay). Unrepresented were: Capitol City, C.P.R.C., and Saginaw.

Welcoming remarks and announcements were made by Wally, a moment of silence was observed for deceased colleagues, and ground rules for the meeting were mentioned. Doc Garcelon was appointed parliamentarian. Minutes from the last Winter Meeting were approved as published in P.S.

Fred's Treasurer's report was given by Jim in the absence of both Fred and Walt (his proxy). Motion to accept the Treasurer's report was made by Clint, seconded by John T.; voted on and approved. Ken Hostetter and Ritchie Moorhead were appointed by Wally to act as an auditing committee, to complete the job sometime during the course of the weekend.

Reports from standing committees were heard next. Bob White for Varmint committee reported complaints regarding awards, a suggestion to classify Varmint shooters (noting that an award schedule could possibly be recommended, depending on the number of competitors at each particular match). Wally noted that agenda item No. 7 will cover at least part of this subject.

H.B. committee chairman Al Angerman presented statistics over the past seven years in the way of a chart. Guy Green reported for Hunter class, mentioning progress noted, but that the rules

seem to be somewhat relaxed at times. Doc Garcelon suggested that the Hunter class may be stagnating with .308. Phyllis mentioned her club's successful experimentation with "field or special" Hunter rifle class competition. Some of this material will be discussed under agenda item No. 9.

Nominations for committee members: Jack moved that Varmint committee be retained, Charlie P. seconded; and it was voted on and carried. ((Phyllis offered her services to work with this committee.)) H. B. committee: Bob White nominated Randy Fritz, John Trella nominated Al Angerman. Jack moved for closure, Bob White seconded; and it was voted on and approved. Hunter: Carl Lyon moved that the election which was held at the Hunter Championships be approved (Guy Green, Paul Olewine, Randy Fritz, Geza Nagy, and Bob Linn, seconded by John Moulthrop; voted on and carried.

Report was given by the Recording Secretary, including results of the election of officers. Charlie Fountaine is the new Executive Secretary, and John Moulthrop is the new Treasurer for I.B.S.

Special committees: nominating committee (?) Measuring committee chairman Clyde Hart reported the usual difficulties in measuring small groups. The same committee will continue to serve.

Bob White reported for the awards committee and noted specific ordering of the various awards, suggested seeking a new supplier for plaque awards, mentioned lack of return of match reports (particularly from clubs holding registered varmint matches), and suggested including Hunter class aggregate winners — also for 300-yard matches. He also noted that the plates from the old Experimental class trophy could be placed on the current H.B. rifle traveling trophy. All I.B.S. awards have been sent, including patches, plates, trophies, etc. Other comments will be made at the proper time during the handling of the agenda items. Bob finally read a letter from a member suggesting a "Top 20" for the season's shooting.

Postal committee: '76 and '77 medals have either been issued or are in hand. Rick Hornbeck will take over as chairman of this committee. Liaison and P.R. committee reported approximately

\$1,200 in the special account which was set up for this purpose. Carl made a few comments regarding the N.R.A. booth activity. Wally will recommend that any offer for I.B.S. to man a booth this year be turned over to N.B.R.S.A. because of the distance involved.

Clyde reported no complaints relative to the cooling-off period committee. P.J. Hart reported that the Precision Rifleman award package will be turned over to Bob White. Powder puff committee submitted, via a written report, that '77 was a successful year.

Old business was called for with no response. Under new business, Carl Lynn moved that the annual membership meeting be held in the fall of the year, regardless of when the Board of Directors meeting is held. Clarence Detsch seconded, but the vote was against the motion.

At this time, Wally introduced the N.B.R.S.A. people who were in attendance. Charlie Pardoe moved for recess of the general membership meeting, Clint Benedict seconded, voted on and carried. Coffee break.

At 11:10, the Board of Directors meeting was called to order by Jim Stekl. Agenda Item No. 1. Discussion regarding the barrel dimension rule was heard. Charlie Pardoe moved to turn the matter over to Hunter class, and their decision be rubber stamped by the Board of Directors. Randy Fritz seconded, and it was voted on and carried. Bob White moved to accept the rule changes, John Moulthrop seconded, and it was voted on and approved, with one opposing vote cast.

No. 2. Bob White reported testing 75-100 different types of paper samples and evaluation of same by checking under magnification, etc. — is now in the process of completing this testing, so no final report is available at this time. He suggested changing the color of the ink with which the target is printed for easier definition of bullet holes for measuring purposes. No action at this time.

No. 3. Chairman Walt Periera reported that running candidates at large has been tried with some degree of success. It was suggested that possible candidates might apply for the particular office in which they were interested. Walt Periera moved to allow the nominating committee to accept applications and/or

make nominations for officers. The motion was seconded, voted on, and carried. At this time, the meeting was recessed for lunch.

Jim Stekl reconvened the meeting at 1:30. No. 4. Several dates were suggested. Bob White moved to set the meeting date sometime between November 1 and 15, seconded by Phyllis Austin; voted on and carried, with three opposed.

No. 5. Phyllis Austin moved that this item be allowed only in the H.B. class for a period of one year, seconded by Clint Benedict; the vote was nine in favor and seven opposed.

No. 6. Bob White moved that the match dates for this year be selected by the club directors, but that the association would choose for '79. John Trella seconded; and it was voted on and carried. It was noted that N.B.R.S.A. dates for '79 will be during the last week of July for the Varmint and Sporter Championships in Knoxville and the first week of August for the heavy gun championships near Cincinnati. An informal poll of the general membership was taken to determine interest in holding the Varmint and Sporter Championships on Labor Day weekend or during the third week of August. (19th through 25th) Bob White moved to set these championships during the latter for '79, seconded by John Trella, voted on and approved. Clint Benedict moved to set the date for the H.B. Championships for the weekend of September 8-9, '79, again seconded by John Trella; voted on and carried unanimously. Hunter class Championships have recently been held during the third weekend of September. Wally moved to maintain this time (September 15-16, '79), seconded by John Trella, one more time; voted on and carried. Clint Benedict moved to hold the 200 and 300-yard Championships (H.V., L.V., & H.B.) during the second weekend of July (14-15, '79), Randy Fritz seconded; and the motion was voted on and approved. '78 dates: Wally Hart bid for the Varmint and Sporter Championships at Council Cup from August 24 through 27. Such was moved, seconded, and carried. Clint Benedict bid for the H.B. Championships at Stittsville on August 12-13; Wally Hart so moved, Bob White seconded, and the vote was in favor. Randy Fritz bid for the 200 and 300-yard Championships (H.V., L.V., & H.B.) at Mainville on July 15-16. Randy Fritz made the motion, Clint Benedict seconded, and it was voted on and carried. Randy Fritz again bid for the Hunter class Championships to be held at Mainville on September 16-17. He then made

the necessary motion, John Trella seconded, and it was voted on and carried.

No. 7. There was discussion regarding giving cash awards, etc. Clint Benedict moved to have range aggregate trophies with extra prizes and additional places to be paid with monetary awards, to be determined by the club, on a one-year trial basis. This motion was subsequently withdrawn. Wally Hart moved to deny this item, and it was seconded; voted on and carried.

During the coffee break which commenced at this time (3:15), the tentative match schedule was filled in by the club directors.

The meeting was reconvened by Jim Stekl at 3:40. Bob White scanned the match schedule for possible conflicts. No. 8. Walt Periera moved that this item be defeated as inequitable, Clint Benedict seconded; the motion was voted on, and the item was defeated. Bob White noted a few conflicts in the tentative match schedule which were subsequently resolved.

No. 9. Clyde Hart moved to withdraw this item; no second. Guy Green moved that the committee felt that the rule book should be adhered to regarding the barrel dimension rule. A motion to reject Item No. 9 was made; seconded by

Charlie Fountaine. The motion was voted on and carried, with three opposed.

No. 10. Walt Periera moved to defeat the item, seconded by John Moulthrop; voted on and defeated.

No. 11. Clint Benedict moved to leave this item as it stands, Bob White seconded. The motion was voted on, and the item was rejected.

No. 12. Jack Deming moved to rewrite the rule to protect the shooter who reports a crossfire from DNQ, Wally Hart seconded, and it was voted on and approved. Committee appointed to do so was Clint Benedict, Charlie Fountaine, and Jack Deming, to report back tomorrow morning.

No. 13. Bob White moved in favor of appointing a committee to look into the possibilities of this item, seconded by Randy Fritz. It was voted on and carried. The committee will report back at the next Winter Meeting.

No. 14. Walt Periera moved that we accept the item as already being covered adequately, seconded by Clint Benedict; voted on and carried.

No. 15. Wally Hart moved that we try this for one year, using the H.V. class

(Continued on next page)



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## MINUTES

(Continued from page 7).

only (100 and 200 yards), to be registered, but with no records possible. Addendum No. 1: records to be recognized; addendum No. 2: the manner in which it will be done (best score at the end of the first year); addendum No. 3: \$1.00 fee to be charged. Walt Periera seconded, and it was voted on and approved.

No. 16. Jack Deming suggested leaving this item to the discretion of the Executive Board. Wally Hart noted that Mike Walker has agreed to do the whole package. Walt Periera moved to leave this item to the discretion of the Executive Board, following a vote of confidence by the general membership. The motion was seconded, voted on, and approved.

No. 17. Bob White moved to accept this item, provided that there is no interaction between rifle and rests; seconded, voted on and carried.

No. 18. Wally Hart moved that this be included in No. 16, Walt Periera seconded; voted on and approved.

John Trella moved to close this portion of the Board of Directors meeting,

seconded; voted on and approved at 5:30. Executive Board meeting will convene again tomorrow morning at 9:00 for ratification of business transacted today.

Wally Hart reconvened the general membership meeting at 9:10 on January 15. Nominating committee appointed to serve for '78 was Doc Garcelon, Lloyd Richards, and Paul Olewine. Auditors reported that the Treasurer's records were in order. Jim Stekl moved and Rick Hornbeck seconded to accept the auditors' report; voted on and approved.

It was moved to hold the general membership meeting at the same time as the Board of Directors meeting by Clint Benedict, seconded by Rick Hornbeck; voted on and carried.

Wally Hart opened the Executive Board meeting to ratify the work of yesterday's directors meeting. Motion to accept the action of the Board of Directors was made by Bob White and seconded by Jack Deming; voted on and carried. Jim Stekl moved to close the Executive Board meeting, Bob White seconded; voted on and carried.

General membership meeting again: Wally Hart read a letter from Neville Madden regarding the new Australian Sporter class; also read letters from Walt Berger and himself to Neville. Discussion was heard from Rick Hornbeck, (must make haste slowly in order to avoid making wrong decisions), Clint Benedict, (L.V. seems to be going down the drain in Canada), Bob White (want to retain three-gun, so possibly alter one gun to accommodate this). It was felt that feedback from the shooters through the magazine or at the matches would be desirable. The possibility of publishing Nev's letter in P.S. was mentioned. Glenn Price made the point that the shooters should make the decisions affecting changes in **their** sport. Carl Lynn suggested that this should be approached **very** carefully! It was decided to publish Mr. Madden's letter in P.S. and ask that any and all comments from interested parties be sent to the Recording Secretary.

Wally Hart read a letter from A.I.T.R.R. proposing cooperation with I.B.S. in the interest of the development of true international competition. He indicated that now would be a good time to initiate this type of activity. Carl suggested that Rick Hornbeck be taken up on his offer to undertake this project.

Regarding agenda item No. 12: the rule in question was rewritten as follows: "A competitor found to have crossfired and whose target and/or the stationary backer shows him to have fired more than the required number of shots (including crossfire) shall be deemed to have tried to conceal the fact of his crossfire and shall be disqualified. An exception shall be made if the shooter notified the range officer before the end of that relay that he inadvertently crossfired and may have fired more than the required number of shots. The 1/4" penalty per 100 yards of range shall apply." and shall be referred to the cooling off period committee, as moved by Bob White (following reading of the rule by Jack Deming), seconded by Jim Stekl, and approved by vote.

Other new business: possibility of an award to be made for special contributions to the shooting game was presented by Carlos Cintron. This suggestion may be submitted as an agenda item for next year's meeting. Bob White stated that a reasonably definite criteria would have to be determined regarding who might qualify for such an award. Carl Lynn projected the idea that an I.B.S. award must be made to an I.B.S. member.

John Trella moved to adjourn, Phyllis Austin seconded; and the vote in favor was unanimous. Meeting was adjourned at 10:15.

Respectfully submitted,  
Donalee  
Recording Secretary

## NEW LOADING DATA BOOKLET

A new revised edition of the Winchester-Western Ball Powder Propellant Loading Data Booklet has recently been published by the Winchester-Western Division of Olin Corporation. Now in its third edition, the new 72-page booklet is the only complete source of reloading data available for Winchester-Western Ball Powder propellants. Single copies can be obtained free of charge at retail handloading outlets, or on written request from Edward A. Matunas, Winchester-Western, 275 Winchester Avenue, New Haven, Conn. 06504.

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.2207 200 YD. AGG.  
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8-13-77

Walt Berger of Overland Park, Kansas recently shot this new world's record using HODGDON H335 powder. Walt says his rifle shoots more accurately using H335 than with any powder he has ever shot and gives better velocity and barrel life.



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# Agenda Items Which Require Rulebook Changes

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## Agenda Item 5

To allow or disallow the use of electronic wind gage or similiar devices and to insert this ruling into the rule book.

Rule change: to be allowed only in H.B. class for period of one year.

## Agenda Item 12

Addition to Rule Book: Section III Tournaments, (N) Disqualifications of Targets and Competitors.

Rule change: Paragraph four: "A competitor found to have crossfired and whose target and/or the stationary backer shows him to have fired more than the required number of shots (including crossfire) shall be deemed to have tried to conceal the fact of his crossfire and shall be disqualified. An exception shall be made if the shooter notified the range officer before the end of that relay that he inadvertently crossfired and may have fired more than the required number of shots. The 1/4" penalty per 100 yards of range shall apply."

## Agenda Item 15

Discuss possibility of variations of course of fire (score shooting or other).

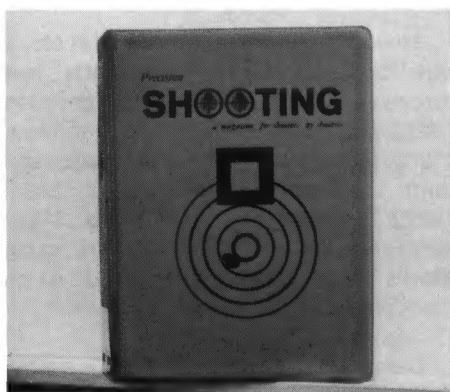
Rule change: to be tried for one year using H.V. class only (100 and 200 yards), to be registered but with no records possible. Addendum No. 1: records to be recognized; addendum No. 2: the manner in which it will be done (best score at the end of the first year); addendum No. 3: \$1.00 fee to be charged.

## Agenda Item 17

Allow Remington 40XB Stocks to be used to compete in Benchrest (H.V., L.V., SP., H.B.) matches as they are supplied from Remington (with sling swivel attachment and the slot in the bottom of forend wood).

Rule change: to be accepted provided that there is no interaction between rifle and rests.

1977 All issues on hand.  
1976 All issues on hand.  
1975 All but Feb., May and September.  
1974 All but Feb., March  
1973 All but February, March and July  
1972 All issues on hand  
1971 All but January  
1970 All but January, April, May, June and July  
1969 All but June.  
1968 All but February  
1967 All but December  
1966 All but January, March, May, June and August.  
1965 Only January, April, August, September, November and December.  
1964 All but June, July, August, September, October and December.  
1963 All issues on hand.  
1962 All but February, March and April.  
1961 No issues available.  
Write for listing prior to 1961.



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# Single Shot Rifles

**Claude E. Roderick**  
**509 Fifth Street**  
**Monett, Missouri 65708**



Some five years ago I promised you more velocity tests on the single shot rifles and load combinations. It is hard to accumulate this information due to the lack of necessary detailed data on barrels and bullets. This table and data on barrels and bullets gives a fairly complete test of calibers except the .28-30 and .33-47.

The reason for the few tests using the popular duPont 4227 powder in these rifles is because few of us here in the mid-west use it.

All firing was done from a machine rest using an Avtron Model K333 Chronograph and their Model K101 photoelectric screens spaced 5-feet apart. Velocities were taken 10-feet from the muzzle.

When the wind velocity was under 10 mph firing was done at 100 yards, and when it was 10 or more mph firing was done at 50 yards. No particular attention was given the wind since testing was for velocities and to find a uniform combustion charge — minimum extreme variation in velocities from shot-to-shot.

All powder charges were accurately weighed (not bulk) as were the bullets used.

My No. 1 lube formulae was used when the temperatures were 80°F. and above. No. 2 (softer) used when it was 55-80°F. No leading was found at any time during the testing.

Where two cork wads are shown one is on the powder with about 1/2-pound pressure, and the other about 1/16" in from the mouth of the case. The cork material is a very fine granulation and now a discontinued Armstrong No. 1155. It now comes only in a neoprene bond and I would be afraid to use it.

Remington No. 1-1/2 small, and No. 2-1/2 large pistol primers were used except the two tests with Rifle "G" as noted in the velocity table.

The seating depths given are from the base of the bullet to the breech end of the barrel and just sufficient to gas seal the baseband of the bullet and prevent powder gases from hitting its periphery.

Neither I or this magazine recommend any of the loads given in this table except when used with a barrel and bullet combination as given here. No high pressures were indicated at any time during this test. However, start lower, watch the extraction of your case, and flattening of the primer for any pressure indications.

## RIFLE "A":

Clyde Hart-Ballard .30-222R (.340" neck), 30" x 1.350 diameter round, cylindrical, 8 land and grooves. Bore .3005" and grooves .3082" diameters, 14-inch uniform right-hand twist. Bullet from Rod's No 4 mould with .3090" baseband and other bands. .3013" diameters and shot as cast of 1:20 tin-lead alloy with Rod's No. 2 lube. One 1/32" thick cork wad on powder only. Bullet seated 1.790-inch.

## RIFLE "B":

Douglas-Ballard .30-222R (.340" neck), 26-7/8" long x 1" diameter barrel. 6 lands and grooves. Bore .300" and grooves .3085" diameters, 15-inch uniform right-hand twist. Bullet from Rod's No. 4 mould with .3090" baseband and other bands .3013" diameters and shot as cast of 1:20 alloy and Rod's No. 1 lube with one 1/32" thick cork wad on the powder only. Bullet seated 1.795-inch.

## RIFLE "C":

Pope-Ballard .32-40, 31" No. 5 half octagon barrel, 8 lands and grooves. Bore .3150", center grooves .3160", and corner of grooves .3213" diameters. Gain twist beginning at breech with 1-turn-in-17 1/2-inches and ending at muzzle in 1-turn-in 14 1/2", left hand. Bullet from Rod's No. 1 mould with baseband .3233"

and others toward the nose .3205", .3186", .3155" and front band .3152" diameters and shot as cast of 1:20 alloy and Rod's No. 1 lube. Two 1/32" thick cork wads. Bullet seated 2.263-inch.

## RIFLE "D":

Segrist-Ballard .32-40, 30" x 1.375" diameter round, cylindrical, 8 land and grooves. Bore .3155" and grooves .3230" diameters, 14-inch uniform right-hand twist. The Gun Shop No. 60 mould with baseband .3245" and all other bands .3170" diameters, and shot as cast of 1:20 alloy. Rod's No. 1 lube and two 1/32" thick cork wads. Bullet seated 2.180-inch.

## RIFLE "E":

Stevens-Ballard .32-40, 30-inch No. 4 full octagon barrel, six lands and grooves. Bore .3155" and grooves .3223" diameters, twist 16" uniform, right-hand. Rod's No. 3 mould baseband and toward nose diameters .3235, .3222", .3195", and front band .3155" and shot as cast of 1:20 alloy using Rod's No. 1 lube and two 1/32" thick cork wads. Bullet seated 2.278-inch.

## RIFLE "F":

Darr-Ballard .32-40, 30-inch x 1.375" full octagon barrel, 7 lands and grooves. Bore .3153" and grooves .3235" diameters, twist 16" uniform, right-hand. Darr mould .3230" diameter cylindrical and shot as cast of 1:20 alloy and Rod's No. 1 lube. One 1/32" thick cork wad on powder only. Bullet seated 2.178-inch, and bore not throated nor "free bored."

## RIFLE "G":

This is one of my own favorites. It is a Pope-Ballard .35 caliber, 30-inch No. 6 full octagon barrel with 8 lands and grooves. Bore .3513, center of grooves .3523", and corner of grooves .3585" diameters. Twist 15-inch, UNIFORM, left-hand. The case is made by taking a WRACo .38-55 and size it straight taper to .375" diameter at the mouth.

Beverage mould with baseband .3600" diameters and shot as cast of 1:20 alloy using Rod's No. 2 lube. Two 1/23" thick cork wads, and bullet seated 2.250-inch. First line velocity test in the velocity chart is with Remington No. 2-1/2 pistol primers, and the other two lines were shot using CCI Bench Rest No. BR2 large rifle primers. Note small increase in velocity over the pistol primers.

#### RIFLE "H":

Schoyen-Ballard .38-55 caliber, 29-1/2-inch No. 4 round barrel, 9 lands and grooves. Bore .3715" and grooves .3778" diameters. Twist 16 1/2" uniform, right-hand. Rod's No. 2 mould with baseband .3808" and all other bands .3750" diameters. Shot as cast of 1:20 alloy and Rod's No. 2 lube, and two 1/32" thick cork wads. Bullet seated 2.175-inch.

#### RIFLE "I":

This is another of my own favorite rifles and it has never failed me in several years of shooting it. It is a Schoyen-Ballard .40-70 Ballard caliber, 31-inch x 1-9/16" across the flats of the full octagon, very little taper to outside, and originally made for cross paper patch, 9

lands and grooves. Bore .3993" and grooves .4063" diameters, twist 16 1/4" uniform, right-hand. I'm using an old Pope .39 caliber mould casting a bullet over .004" out-of-round. I lightly coat as cast bullets with Castor Oil and swage the baseband UP from .3965" to .4073" diameter, and all other bands from around .380-.385" UP to .4000" diameter. This shortens the bullet approximately .075", and makes it perfectly round everywhere. The nose and the grease grooves are the only thing that shortens or closes up. The base and other bands retain their original length. Bullet cast of 1:20 alloy using my No. 1 lube and two 1/32" thick cork wads. Using my chamber guide the bullet is seated through it to a depth of 2.553-inches.

### BOB SHERER AND SCHUTZ BROTHERS TO AWARD BARRELS FOR RECORDS

Tim Bolinger, on behalf of Bob Sherer and Schutz Brothers, Inc. (P.O. Box 300, North Manchester, Indiana 46962) has announced a program whereby a match grade barrel will be given to any competitor who sets an I.B.S. or N.B.R.S.A. record, using a Sherer barrel.

Although the program was scheduled to become effective January 1, 1978, the company "backed up", and awarded barrels to a pair of shooters whose records were set in September, 1977, but not published until January.

Fred Hasecuster  
Shelbyville, Indiana  
L.V. 100 yard agg.  
.2108 (NBRSA)

Ted Manning  
Spr. 100 yard agg.  
.2145 (NBRSA)

Both records were set at the Volunteer Trials in Knoxville, on September 5, 1977.

For further information, contact Tim Bolinger, 805 E. 2nd St. Ext., N. Manchester, Indiana 46962.

| Powder     | Lot No.    | Charge grs. WT | Bullet wt. grs. | Number shots | Average vel. FPS | Extreme variance FPS | 50 Yd. Group | 100 Yd. Group |
|------------|------------|----------------|-----------------|--------------|------------------|----------------------|--------------|---------------|
| RIFLE "A": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | HC14-11121 | 12.3           | 165.8           | 5            | 1468             | 9                    | .233"        |               |
| duP 4759   | HC14-11121 | 12.6           | 165.4           | 5            | 1495             | 14                   | .226"        |               |
| duP 4759   | P73N005B   |                |                 |              |                  |                      |              |               |
|            | 11181      | 13.0           | 167.0           | 5            | 1494             | 18                   | .434"        |               |
| duP 4759   | P73N005B-  |                |                 |              |                  |                      |              |               |
|            | 11181      | 13.5*          | 167.2           | 5            | 1544             | 14                   |              | .851"         |
| RIFLE "B": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | P73N005B-  |                |                 |              |                  |                      |              |               |
|            | 11181      | 13.4*          | 168.7           | 5            | 1518             | 13                   | .544"        |               |
| RIFLE "C": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | CM4-11127  | 13.3           | 199.7           | 5            | 1344             | 11                   | .410"        |               |
| duP 4759   | CM4-11127  | 13.6           | 199.7           | 5            | 1362             | 11                   | .475"        |               |
| RIFLE "D": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | P73N005B-  |                |                 |              |                  |                      |              |               |
|            | 11181      | 14.4           | 194.5           | 5            | 1389             | 14                   |              | .957"         |
| duP 4759   | P73N005B-  |                |                 |              |                  |                      |              |               |
|            | 11181      | 14.6           | 194.5           | 5            | 1407             | 11                   |              | .645"         |
| RIFLE "E": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | 98         | 13.3           | 197.0           | 5            | 1471             | 23                   | .161"        |               |
| duP 4759   | 98         | 13.6           | 197.4           | 5            | 1500             | 13                   | .159"        |               |
| RIFLE "F": |            |                |                 |              |                  |                      |              |               |
| duP 4227   | P7380025B  | 14.7           | 188.3           | 5            | 1559             | 15                   | .227"        |               |
| duP 4227   | P7380025B  | 15.0*          | 188.3           | 5            | 1601             | 26                   | .240"        |               |
| RIFLE "G": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | 98         | 15.0           | 255.9           | 5            | 1249             | 9                    |              | .442"         |
| duP 4759   | 98         | 14.5           | 255.9           | 5            | 1231**           | 12                   |              | .464"         |
| duP 4759   | 98         | 15.0           | 255.9           | 5            | 1272**           | 16                   |              | .578"         |
| RIFLE "H": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | HC14-11121 | 16.7           | 294.3           | 5            | 1360             | 26                   | .283"        |               |
| duP 4759   | HC14-11121 | 17.0           | 294.3           | 5            | 1381             | 16                   | .444"        |               |
| duP 4759   | HC14-11121 | 18.0           | 294.3           | 5            | 1402             | 15                   | .230"        |               |
| duP 4227   | P74AP08C   | 18.0           | 294.5           | 5            | 1400             | 13                   | .512"        |               |
| RIFLE "I": |            |                |                 |              |                  |                      |              |               |
| duP 4759   | 98         | 20.0           | 354.9           | 5            | 1250             | 9                    | .133"        |               |
| duP 4759   | 98         | 20.5           | 354.9           | 5            | 1275             | 7                    | .127"        |               |
| duP 4759   | 98         | 21.0           | 354.9           | 5            | 1301             | 10                   | .188"        |               |

\*Considered maximum charge in these combinations.

\*\* CCI Bench Rest No. BR2 large rifle primers.

Claude E. Roderick  
509 Fifth Street  
Monett, Missouri 65708  
October 18, 1977

# IBS INTERNATIONAL RECORDS — — —

## As of January 1st, 1978

**3 GUN  
SPORTER &  
VARMINT  
AGGREGATE**

| SINGLE GROUPS | EXPERIMENTAL                   | HEAVY BENCH<br>REST RIFLES     | HEAVY<br>VARMINT                  | LIGHT<br>VARMINT                 | SPORTER                         |
|---------------|--------------------------------|--------------------------------|-----------------------------------|----------------------------------|---------------------------------|
| 5-100         |                                | .063"<br>Zeiser<br>8/30/58     | .0816"<br>T.J. Jackson<br>5/27/74 | .077"<br>C. Fountaine<br>9/20/75 | .077"<br>E. Thompson<br>8/30/73 |
| 5-200         |                                | .161"<br>D. Pickens<br>7/15/67 | .192"<br>Gillman<br>6/24/64       | .236"<br>F. James<br>8/7/69      | .259"<br>L. Hunt<br>7/5/69      |
| 5-300 Meter   |                                | .605"<br>Gottschall<br>5/9/65  | .787"<br>Bassett<br>10/6/68       | .887"<br>D. Hall<br>5/30/69      | .817"<br>D. Kiel<br>5/30/69     |
| 5-300 Yard    |                                |                                | .541"<br>R. White<br>9/1/74       | .673<br>J. Vinci<br>6/24/77      |                                 |
| 10-100        |                                | .138"<br>F. Pindell<br>8/27/69 |                                   |                                  |                                 |
| 10-200        |                                | .298"<br>Miller<br>7/20/68     |                                   |                                  |                                 |
| 10-300 Meter  |                                | .918"<br>Rinehart<br>8/30/57   |                                   |                                  |                                 |
| 10-300 Yard   | .813"<br>J. Reynolds<br>9/1/74 | .900"<br>A. Cupo<br>9/1/74     |                                   |                                  |                                 |

### AGGREGATES — MOA

|                |                                 |                                |                                |                             |
|----------------|---------------------------------|--------------------------------|--------------------------------|-----------------------------|
| 5-5-100        | .1776<br>J. Stekl<br>6/18/77    | .2134"<br>W. Berger<br>5/27/74 | .1605<br>P. McMillan<br>8/4/77 | .2306<br>Deming<br>8/19/73  |
| 5-5-200        | .2290<br>Engelbrecht<br>11/4/67 | .2335<br>A. Bench<br>10/9/75   | .2151<br>J. Fry<br>10/12/75    | .2720<br>A. Euber<br>8/5/77 |
| 5-5-300 Meter  | .3547<br>Demoise<br>5/14/66     | .4640<br>Mick<br>5/7/67        | .5527<br>T. Seitz<br>6/22/68   | .4898<br>W. Dunn<br>5/30/69 |
| 5-5-300 Yard   |                                 | .4043<br>R. Moorhead<br>9/1/74 |                                |                             |
| 5-10-100       | .2278<br>Cornelison<br>10/22/66 |                                |                                |                             |
| 5-10-200       | .2496<br>E. Walker<br>8/11/62   |                                |                                |                             |
| 5-10-300 Meter | .5105<br>A. Angerman<br>6/1/69  |                                |                                |                             |
| 5-10-300 Yard  | .4282<br>J. Eaton<br>9/4/76     |                                |                                |                             |

### GRAND AGGREGATES — MOA

|                                |                                  |                                     |                              |                               |                               |
|--------------------------------|----------------------------------|-------------------------------------|------------------------------|-------------------------------|-------------------------------|
| 5-5 (100 plus 200)             | .2275<br>Carden<br>11/4/67       | .2491<br>Suchan<br>6/26/65          | .2293<br>J. Fry<br>10/12/75  | .2780<br>A. Euber<br>8/4-9/77 | .2971<br>A. Euber<br>8/4-7/77 |
| 5-5 (200 yard plus 300) Meter  | .3639<br>P. Gottschall<br>5/9/65 | .4703<br>Kiel<br>10/6/68            | .5000<br>T. Seitz<br>6/22/68 | .5469<br>W. Dunn<br>5/30/69   |                               |
| 5-5 (200 plus 300) Yard        |                                  | .4383<br>R. Moorhead<br>8/31-9/1/74 |                              |                               |                               |
| 5-10 (100 plus 200)            | .2563<br>Roberts<br>8/11/62      |                                     |                              |                               |                               |
| 5-10 (200 Yard plus 300) Meter | .4627<br>A. Angerman<br>6/1/69   |                                     |                              |                               |                               |
| 5-10 (200 + 300) Yard          | .4605<br>J. Eaton<br>9/3-4/76    |                                     |                              |                               |                               |

### HUNTER SCORES

5-5 (100)

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# Benchrest Headlines — 25 Years Ago

by A. H. Angerman

- Phil Teachout published an article in which he proposed a new class of bench rifle, a centerfire with any sights, around 13 pounds in weight, including scope. He also proposed a centerfire hunter rifle class, 25 cal. or over with 6X maximum scope power, not over ten pounds in weight. He invited thoughts and comments which he received in voluminous amounts. From these discussions eventually came the present Heavy Varmint and Sporter classes.

- Ever hear of Kokomo, Indiana? It was the scene of 19 sturdy bench rest competitors battling it out in February of 1953, shooting only 5 shot groups at 100 yards. Al Roberts, the fellow who still holds the IBS (and NBRSA) world record aggregate for 5-10 (100+200) fired the smallest group of the day, .275". Jim Jackson won the agg. with a .535 MOA using his 22-250, while Ferris Pindell used an unidentified .25 caliber rifle to come in second with .545 MOA. Roberts and his fellow Louisvillian, Ed Walker, were famous for their not wishing to shoot except under perfectly quiet conditions. Wind and mirage must not have been very good considering Ferris' half minute, so Roberts and Walker must have folded up their tents and gone home.

- Brunon V. Borozewski, a Buffalo, N.Y. lawyer, an eventual President of the organization and National Champion, was well into his development of new calibers and stock designs for bench rest shooting. Of all the shooters I ever knew, Bruno was the least inhibited by what others were using. He was an

avid experimenter; allowing his vivid imagination to scan every avenue of advancement. He worked over a variety of bullpup designs, he tried a .250/348 wildcat, and he tried to subdue barrel vibrations by tying a ten pound block of lead to the muzzle of his gun. He was one of the first, if not the first, to prove in the 308 Winchester as a big gun caliber. Bruno came to every shoot with something new, novel or revamped. All of which gave the game character and color.

- Bench rest shooting was widening in scope and degree of activity. Scott Donaldson, then in Alaska (and no relative to Harvey), was crying out for some postal matches. The Brea, Cal. club opened its season in January! Roy Vail, Warwick, N.Y. claimed that his French walnut stocks were "grain correct". I guess this meant they were



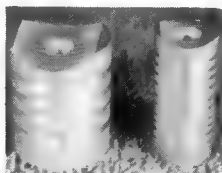
a little more stable than stocks sold by his competitors. Wilkins and Schultz put out a case neck graphiter for a measly buck. Sy Oster came to most shoots with a truck full of shooting and reloading supplies.

- The Staunton, Va., DuBois, Pa., Wilkes Barre, Pa., and Louisville, Ky. clubs were starting to line up their schedules for 1953. The Altoona, Pa. club had sturdy, movable shooting benches made out of welded boiler flue pipe. Wow! I wonder who got the job of dragging those around. The San Angelo club, home of the Texas Bench Rest Shooters Association, also had movable benches but they were assembled from massive looking pieces of lumber. \*

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# Lieutenant Colonel Wigger and Ben Avery Respond to Silhouette Disqualification Letters

*Editor's Note: This is the last in the series of letters on the 1977 National Silhouette Championships. We present this for your information in hopes that it will serve to improve the game.*

I have to take exception to Mr. Ben Avery's letter to "Precision Shooting" concerning my article in the December issue on the National Metallic Silhouette Championships. He declared my article erroneous and accused me of unsportsmanlike conduct. I always thought the word "disgruntled" meant unhappy or upset, not unsportsmanlike.

First, I apologize to Dr. William Berkley if what I wrote was taken as a personal affront to him. I had no quarrel with Dr. Berkley and did not mean to detract from his excellent performance. As a competitor, he had every right to challenge the equipment of another shooter. I believe he challenged Ms. Monez's rifle in good faith and he actually believed the stock design did not conform to the "spirit" of the rules of silhouette. I too have always found Dr. Berkley to be a good sport and he has always congratulated me when I won, including the rain shortened National Championships match in Tucson last year. Mr. Avery gave the impression that he was doing me a favor when he made the decision. As a matter of fact, I mentioned to Mr. Avery that I would like to see the match finished and told Dr. Berkley that I didn't like to "back" into winning the match. I also congratulated Dr. Berkley on his fine performance this year.

If there were any errors in reporting, then they came from Mr. Avery in his letter. The rifle Karen used in the silhouette matches was **not** the rifle she used in the National International Championships in June. It was a different action with a lighter barrel and different stock. John Chapman of Weatherford, Texas, built the rifle and can attest to this.

He also tried to justify his decision by accusing me of being in error in my article on the circumstances surrounding her rifle disqualification.

After the practice match, Mr. Avery approached Karen and I near the table where we were cleaning our equipment.

He told her he could not allow her to use the rifle the next day in competition because many shooters were complaining about the stock design. He said "the stock was not of hunting rifle type or design as stated in the rules." We both questioned him as to how he could make that decision based on the current rule when there were many rifles present which had stock designs and other alterations which did not strictly adhere to the intention of the rule. He said, "I am not talking about other rifles, I'm talking about this one, and in my opinion it is a target rifle." We did not agree with him, but it was obvious we were not going to change his mind. We then asked what we had to do to avoid a protest and render the rifle legal for the following day. He stated the cheekpiece would have to be lowered to center line of bore. I then asked him **three** times just to be sure we understood his ruling, if we shortened the cheekpiece the rifle would be acceptable by him for use. Three shooters, Karen, Bob Mitchell and I heard him say, "yes." There was no further discussion as to any other alteration being necessary.

That evening Karen took the rifle to Pat McMillan who reshaped the cheekpiece so the bolt could be easily removed and the comb was lowered to approximately center line of bore according to Mr. Avery's suggestion.

The following morning when we arrived at the range, Mr. Avery ran up to us, never bothered to look at her altered stock and declared he had received an official protest and was now ruling the rifle a target rifle and disqualified the stock.

We tried to discuss the situation with him and reminded him of what he had said the previous evening. He said, "I don't care what I said yesterday, I have made my decision — the stock cannot be used for awards." After I continued to question him, he admitted he was probably wrong for telling us one thing the day before and changing his decision the day of the match, but regardless, his decision now was "it was a target rifle and could not be used for awards"

Several shooters offered to loan her a rifle, including Dr. Berkley. However, Karen is very short, and required an extremely short stock in order to reach the

trigger, so she refused the offers. She did not have a spare stock and obviously there was not sufficient time to make alterations, so she chose to shoot the match with the questionable rifle and be ineligible for awards.

The true spirit of the rule has been broken by many of the shooters with the sophistication of equipment in the past few years. Many shooters do not think thumbhole stocks or electric triggers are within the spirit of the rule and are uncommon in the field. However, these are alterations accepted and allowed.

Everyone has their own opinion as to the validity of Mr. Avery's decision. I still contend the decision was based on an interpretation of an ambiguous rule and whether or not she was singled out, her rifle was made an example of.

The disservice to the sport and the "blackeye" did not come from the debatable, and contrary, to Mr. Avery's letter, not completely popular decision to disallow the rifle; but to the reversal of his word to Karen, who acted in good faith and tried to avoid disqualification by making the alterations as the referee instructed. Whether Karen was right or wrong in trying to use the rifle, the manner in which it was handled was inexcusable.

My report was certainly not erroneous. All statements were true and I stand behind my principals and right to opinion. If this makes me a poor sport, then so be it.

LTC Lones W. Wigger, Jr.

Mr. Ritchie Moorhead, Editor  
Precision Shooting  
Box 6  
Athens, Pa. 18810  
Dear Mr. Moorhead:

I do not desire to get into an argument with Col. Wigger. His interpretation of events and statements made in an effort to avoid a controversy are not the same as mine.

If I had to make the same ruling again, I would not change it one iota. But I see no point in continuing the argument. The rifle rule has been clarified, and future Silhouette championships will be monitored by a three-person jury. Let everyone enjoy the sport.

Sincerely,  
Ben Avery

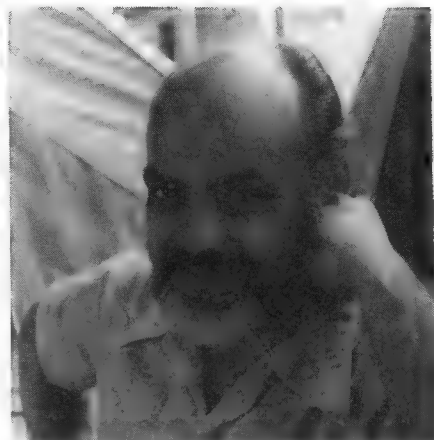
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# From The Workbench

by Fred Sinclair

Please direct all questions to:  
Precision Shooting "Workbench," Box 6, Athens, Pa. 18810  
No individual answers will be given to workbench questions.



## Question:

I have two benchrest rifles, both in 222 caliber, and both require different overall lengths to shoot well.

I use the same bullet in both rifles.

One rifle requires an overall length which allows only about .110 of the bullet in the case before the bullet touches the rifling. Overall length required is 2.290.

The second rifle has an overall length of 2.150.

I note that the Lyman loading manual calls for an overall length of 2.130.

Why is there such a difference?

## Answer:

Number one, the O.A.L. listed in the loading manuals is in reference to the maximum length that will feed through a magazine.

This O.A.L. is of no value to the benchrest shooter.

The O.A.L. will vary depending upon the throating section of the chamber reamer.

Chamber reamers will, of course, vary from manufacturer to manufacturer. Many gunsmiths will have their reamers made to their own throating specifications.

Unless your chambers are cut with the same reamer you're not likely to have the same seating depth (O.A.L.).

Many gunsmiths throat their chamberings separately which again will create a variance.

The benefit of a long throat or a short

throat is fuel for a good many disagreements.

It is much like the disagreement of a long neck versus a short neck or a tight neck chamber versus a large neck.

The results of any of these differences depend upon the concentricity of the loaded round.

For example; take a 222 that has a required O.A.L. length of 2.150, a chamber neck diameter of .254 and the shooter is turning his brass to a wall thickness of .011.

When chambered, the loaded round has .004 clearance on each side of the neck.

Now unless his dies produce a concentric loaded round he is running the chance of .004 misalignment.

This is the argument of the advocates of the tight neck, or fitted neck, chamberers.

The people who use these tight neck chamberings are normally working with neck clearances of .0002 or there-about.

The drawback of the fitted neck is the constant fight to keep your case necks within this .0002 range, plus the fact that if you are inclined to change bullet makers you are likely to find bullet diameters will vary a good deal more than .0002.

Now in my opinion, for what it's worth, you can "have your cake and eat it too."

Your rifle, which has the 2.290 O.A.L. to touch the lands, requires that approx. 2/3 of the bearing surface of the bullet is out of the case. This 2/3 is seated out

into the "free bore" section of the chamber throat.

Most good chamber or throat reamers have an approximate throat diameter of .2243, in the case of 22 caliber, and that 2/3 bearing surface of your protruded bullet, when chambered, is in this throat section which measures .2243.

Once the round is chambered, the maximum misalignment you could possibly have is .0003.

The long throat can, and will, actually straighten a non-concentric round once it is chambered.

I have a couple of 308 caliber rifles with long throats and they appear to perform the same with turned neck cases or unturned cases. Both have chamber neck diameters of .344 which leaves a lot of margin for alignment error. I feel that the self aligning feature of the long throat must play an important role in their ability to digest unturned ammo.

No matter what your preference is, if that bullet doesn't start down the barrel straight it isn't likely to go where you want it to.

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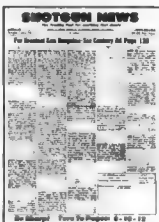
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Forms: Will be mailed to previous competitors around March 1, as well as other known shooters. New shooters might want to obtain forms from Boars Head.

Refund: Refunds will be made on registrations previously sent in, until 5/15. After 5/15, no refunds will be made.

Option: There will be a cash option of \$2.00 per match, per class, including W.U.'s — \$24.00 per class. Payout will be through 5th place. (no change from previous years)

Rules: Unless otherwise stated in the Official Program, NBRSA rules will govern the course of fire. Bench and relay assignments will be made by the Committee.

Trophies: Approximately 70

Patches: Match participation (all competitors); 20 Top in both classes; 20 Top in 2-Gun

Prize \$: Estimated \$10 - 12,000 (dependent upon registrations)

Merchandise: Estimated \$5 - 7,000

Special Categories: Industry-affiliated shooters; Juniors; Rem. 40XB-BR competitors; 4-Man Teams (H.V. Only); and Husband-Wife teams.

NOTE: The winning Junior, H.V. only — Grand Agg. — will receive a custom built (by Fred Sinclair) 10-1/2 lb. 6mm PPC, along with all of the accessory equipment and components. Sponsors include: Wichita Engineering & Supply (action); Bob Sherer-Schutz Bros. (barrel); Brown Precision (stock); Alvin Davidson (custom scope base);

Lyman (20 X scope); Federal Cartridge (primers); PPC Corporation (cases); Walt Berger and Ron Fifer (1,000 custom bullets, each); Weaver (scope rings); Central Products for Shooters (reloading dies); Remington (trigger guard); Fletcher Williams (Propes priming tool); and MTM Molded Products (ammo boxes). In addition to building the rifle, Fred Sinclair also donated a Canjar trigger.

A new flag will be hanging on George's wall for this one, as we'll have at least one competitor from Germany. The Italians have notified us that there will be probably a half dozen in their party.

One of the interesting things to watch, this year, will be the first "shoot out" between the PPC's and Rem. BR's.

Misc. Background on Super Shoots.

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S.S. Records: H.V.

|                     |                      |
|---------------------|----------------------|
| 100 yard group .082 | T.J. Jackson (1974)  |
| 200 yard group .207 | Allan King (1977)    |
| 100 yard agg. .1994 | Harold Morgan (1977) |
| 200 yard agg. .3036 | Steve Gibbons (1977) |
| Grand agg. .2803    | Larry Baggett (1977) |

NOTE: All winning Sporter scores will establish S.S. records, as class has never been fired before.

NOTE: There are \$25.00 cash awards and trophies for best Range Aggregates fired by Super Shoot "First Timers."

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# Technical Column

**M.H. Walker**  
Technical Editor  
R.D. 1, Warren Road  
Mohawk, N.Y. 13407

## 6.5 ACCURACY

I am prompted to write after reading your reply to a 300 meter 6.5 benchrest inquiry (P.S. Dec 1977). This may shed some light on some of your problems as well as others contemplating a 6.5 caliber rifle.

I approached the project from the "twist torque" end. I was well aware that the majority of the 6.5 rifles in production today had a 9 inch twist. I was bound to use the slowest twist possible for the 140 gr. bullets, because as you know the faster the twist the more left torque you have.

I ordered a set of reamers from Keith Francis and three different headspace gauges. One gauge represented a case having a capacity of 46 grains of water to the base of the neck. Another representing a case with a capacity of 55 grains of water, and the third and last gauge representing a case with a capacity of 62 grains. This last one is equal to the 30-06 case.

I ordered a 24" .264 barrel from Shilen with a 9" twist. I first chambered this barrel to the smaller head space gauge. Both Norma and Sierra 139-140 grain bullets were tried, and would not stabilize at 100 yds. Groups were averaging 6 to 8" with some keyholing.

The barrel was then rechambered to the case with 55 grain capacity. Performance was almost identical to what you described of your 6.5-6mm, and I too found the Norma bullet shooting better than the Sierra. (Don't we have the same problem with the 7mm Mauser 10" twist 162-168 gr. Hornaday/Sierra bullets?) Anyway, groups were averaging .6 to .9 depending on what bullet I was using.

I decided to go ahead and rechamber to the larger 62 gr. capacity just to see what would happen. This combination brought groups with both bullets to average .5 with many groups around .3. Groups at 300 yds stayed well under 3 inches. Ten 5-shot groups at 600 yards

averaged 5.3 inches, and would have been much less had I not pulled two shots high and to the left in the last group.

My load is 49-50 grains of IMR 4831 at a M.V. of 2935 to 2950 F.P.S., I have not found any other bullets to equal the performance of the 139/140 Norma/Sierra match bullets.

This rifle is on a Remington 700 BDL action and stock, and I use the Lyman 20X LWBR scope. If it were on a Stolle action and a better stock it would no doubt shoot better.

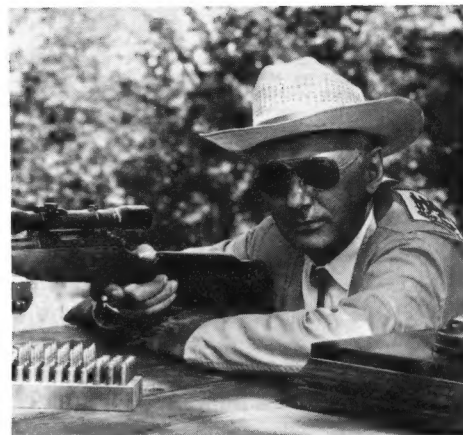
My say for a 6.5 caliber benchrest rifle is a case of 40 to 45 grains of water to the base of the neck. A good Benchrest quality barrel of 12.5 to 13" twist, and a benchrest quality 100 grain bullet to a M.V. of 2750 to 2800 F.P.S. The 100 grain bullet if very pointed and of boattail design would be adequate out to 600 yards. The small case capacity coupled with the 12.5 inch twist will greatly reduce recoil and torque, factors which contribute to poor shooting.

Silas H. Hoskins

Thanks for the good dope on the 6.5. I am presently quite happy with the 6.5 on the 6 mm Rem. I am able to use 45.5 to 46 of N205 or Norma Mag. powder. The 45.5 of N205 with the 140 Match King Sierra gives 2800f/s muzzle velocity in my 27-1/2" barrel. Accuracy is plenty good

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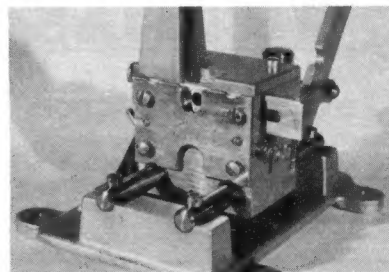
enough in the 10 lb. rifle for Silhouette. This velocity requires an 8" twist for good accuracy. Torque in a 10 lb. rifle is not noticeable. No failures have occurred on the heavy 500 Meter Sheep, so I will use this one again next summer.

You are right about what would be required for a bench rest rifle. Although I would opt for a little less capacity than 40 grain. The problem in the bench rest rifle would be bullets. Even if you bought dies and made your own, there would be the problem of obtaining adequate jackets. I am using the .862" jacket from Sierra for 90 grain bullets, but it is not good enough for benchrest.

M.H.W.

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\* \* \*

**FOR SALE:** Heavy Varmint Rifles, Hart 1A action, Hart Barrel, 223 Remington, (this is new, not used). \$340.00. XP 100 sleeved 6mm PPC, Shilen stainless barrel, fiberglass stock, canjar trigger, free cases-ready to go. \$375.00. Lyman targetspot, 30X scope, \$100.00. Al Davidson round aluminum sleeve, \$35.00. Write or call after 5:00 p.m. Dom Gagliostro, 334 Mary St., Hackensack, NJ 07601, 201-489-0069.

**FOR SALE:** Two Heavy Bench Rifles, 308 and 222 Mag. Both Hart Barrels, rechambered after 1800 rounds and unfired since. Bisonite Bedded, Hart No. 4 Big Gun Actions in special order widened Hart Stocks. Hardened ejector pins milled into stocks for guides fit sandbag or mechanical rest. 2 ounce triggers and 2" Unertl 30X factory cleaned, overhauled scopes. These placed 9, 7, 5 in NBRSA Nationals and 2, 3, 4 in IBS Championships (or very close to that). I've also fired poor groups but the rifles weren't at fault. These are competitive rifles, ready to go, in excellent condition. I simply don't need 3. \$625.00 each. Bill Dryfield, 112 Fairground Road, Ford City, Pa. 16226. 412-763-8418.

### NEW RELOADERS' GUIDE FOR HERCULES SMOKELESS POWDERS AVAILABLE

A new, revised edition of the Reloaders' Guide for Hercules Smokeless Powders has been published by Hercules Incorporated.

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It includes loading information for all

Hercules smokeless powders made specifically for reloaders. These are: "Hercules Red Dot", "Green Dot", "Unique", "Bullseye", "Blue Dot", "Herco", "Hercules 2400", and "Reloder" 7.

The Guide contains data on the uses of each of these powders with the most up-to-date and popular ammunition components, and emphasizes safety precautions for handling and storing smokeless powders.

The most extensive changes are in the shotshell section, which has been revised to include data with the latest components of all major manufacturers. Loads from light target to heavy magnum, with alternate powder, wad and primer combinations, are listed.

The pistol and revolver section has been revised, and information for rifle ammunition using Reloder 7 powder is included.

Copies of the 1978 edition are available through distributors and dealers, or may be obtained by writing: Reloaders' Guide, Advertising Department, Hercules Incorporated, 910 Market Street, Wilmington, Delaware 19899.

"Hercules Red Dot", "Green Dot", "Unique", "Bullseye", "Blue Dot", "Herco", "Hercules 2400", and "Reloder" 7, are trademarks of Hercules Incorporated.

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**Virginia State Varmint Championship**  
**Light Varmint and Heavy Varmint**  
**100 and 200 yards**  
**April 15 and 16, 1978**

Saturday 7:00 a.m. Registration  
 7:30 a.m. Weigh-in  
 8:00 Warm-up match

## Registration Fee

|            |          |         |
|------------|----------|---------|
| \$8/Day    | \$12/Day | \$1/Day |
| Single Gun | Two Guns | IBS Fee |

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| Places  | Class                           |              |
|---------|---------------------------------|--------------|
| 1st/2nd | HV and LV                       | Grand Agg.   |
| 1st/2nd | HV and LV                       | 100 yd. Agg. |
| 1st/2nd | HV and LV                       | 200 yd. Agg. |
| 1st/2nd | Two Gun Agg.                    |              |
|         | Smallest Group 100 yd.          |              |
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For further information contact:

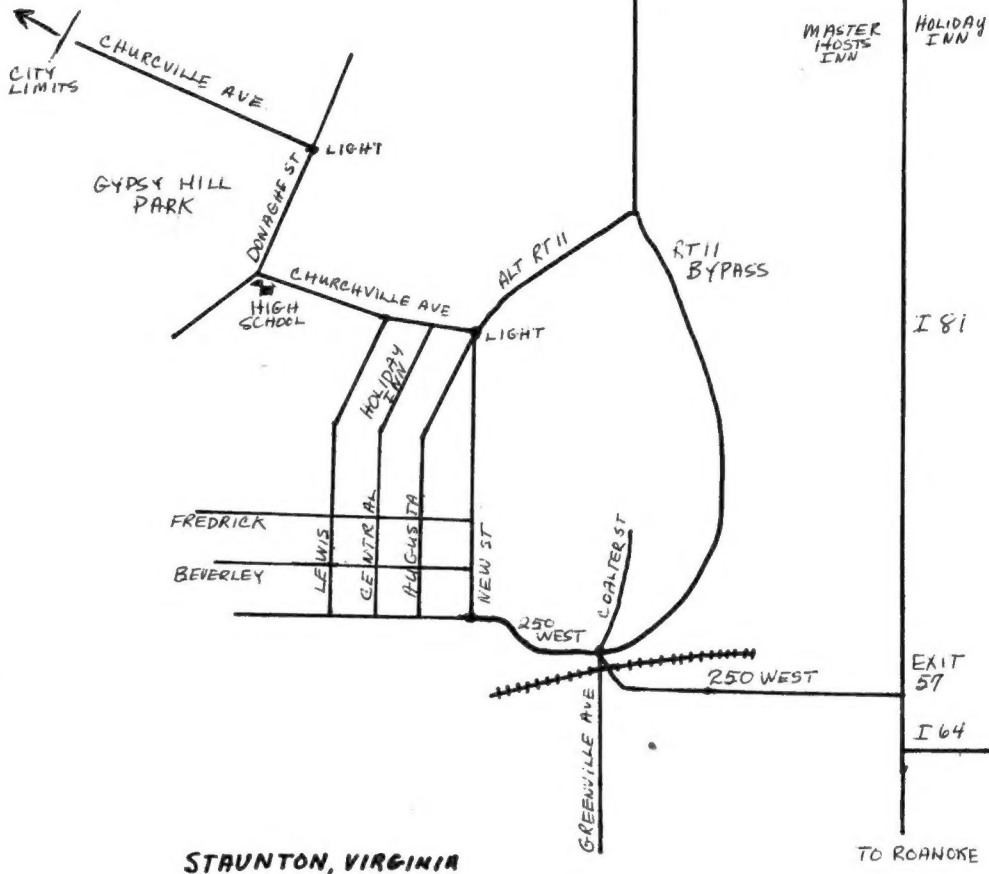
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## (Tentative) IBS Varmint & Heavy Bench Rifle Match Schedule 1978

|                 |                 |                                                               |
|-----------------|-----------------|---------------------------------------------------------------|
| April 9         | Dunham's Bay    | HV 100 yards only                                             |
| April 15-16     | Stonewall R & P | HV, LV 100 & 200 yards                                        |
| April 23        | Dunham's Bay    | HV 100 yards only                                             |
| May 6           | Englishtown     | HV & 40X match, 100 yds only 9:00 a.m.                        |
| May 20-21       | Camillus        | HV, LV                                                        |
| June 10-11      | South Creek     | HV, LV, HB (5 shot)                                           |
| ** June 16-18   | Mainville       | HV, LV, HB (Fri.) 300 (Sat.) 100 (Sun.) 200                   |
| ** June 17-18   | Pine Tree       | HV, LV, NY State Championship                                 |
| June 24-25      | Council Cup     | HV, LV, HB                                                    |
| July 1-2        | South Creek     | HV, LV PA State Championship                                  |
| July 8-9        | Fairfax R & G   | HV for score, VA State Championship                           |
| July 15-16      | Mainville       | HV, LV, HB, International 200-300 yard Championship           |
| July 29-30      | Camillus        | HV, LV                                                        |
| August 12-13    | Stittsville     | HB, International 100 & 200 Championship + Registered HV & SP |
| August 24-27    | Council Cup     | HV, LV, SP, International Varmint Championship                |
| September 9-10  | Englishtown     | HV, LV, NJ State Championship 100 yards only, 9:00 a.m.       |
| September 23-24 | Pine Tree       | HV, LV, HB (5 shot)                                           |

\*\* **Conflict** to be rectified. Watch for official schedule note.

## (Tentative) IBS Hunter Match Schedule 1978

|                 |                 |                                          |           |
|-----------------|-----------------|------------------------------------------|-----------|
| April 9         | Mainville       | 100 yd.                                  | Noon      |
| April 16        | York (IWLA)     | 100 yd.                                  | Noon      |
| April 23        | Central Penn    | 100 yd.                                  |           |
| May 7           | Sulphyr Springs | HTR & Varmint for score                  | Noon      |
| May 21          | York (IWLA)     | HTR & Varmint for score                  | Noon      |
| May 28          | Sulphyr Springs | HTR & Varmin for score                   | Noon      |
| June 4          | Mainville       | HTR & Varmind for score                  | Noon      |
| June 18         | York (IWLA)     | 200 yd. + Varmint for score              | Noon      |
| ** June 25      | Central Penn    | 100 yd.                                  |           |
| ** June 25      | Sulphyr Springs | HTR & Varmint for score                  | Noon      |
| July 9          | Mainville       | 200 yd.                                  | Noon      |
| July 23         | York (IWLA)     | 100 yd. York County Championship         |           |
| July 30         | Sulphyr Springs | HTR & Varmint for score                  | Noon      |
| August 6        | Mainville       | 100 yd.                                  | Noon      |
| August 12       | Englishtown     | 100 yd. NJ Championship                  | 3:00 p.m. |
| August 19-20    | York (IWLA)     | 100 — 200 yd. + HV score Championship    |           |
| August 27       | Central Penn    | 100 yd.                                  |           |
| September 3     | Mainville       | 200 yd. & Varmint for score              | Noon      |
| September 10    | York (IWLA)     | 100 yd. & Varmint for score              | Noon      |
| September 16-17 | Mainville       | International Championship 100 & 200 yd. |           |
| September 24    | Central Penn    | 100 yd.                                  |           |
| October 1       | Sulphyr Springs | 100 yd. & Varmint for score              | Noon      |
| October 8       | Mainville       | 100 yd.                                  | Noon      |
| October 15      | York (IWLA)     | 100 yd.                                  | Noon      |
| October 29      | Central Penn    | 100 yd.                                  | Noon      |
| November 5      | Mainville       | 100 yd.                                  | Noon      |

\*\* **Conflict** to be rectified. Watch for official schedule note.